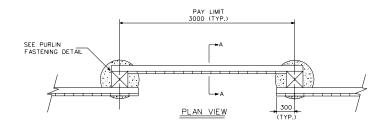
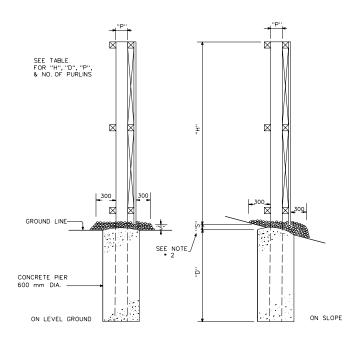


ELEVATION - TRAFFIC SIDE





ISOMETRIC VIEW - SIDE AWAY FROM HIGHWAY

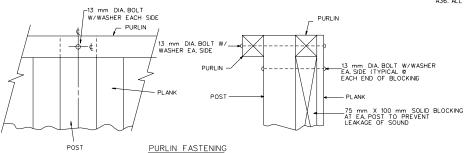
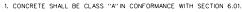


TABLE: POST AND PIER DEPTH "D" IN mm. (GRANULAR SOILS ONLY)							
LL HEIGHT	POST DIMENSION	NO. OF	POST AND PIER DEPTH "D"				
"H"	"P"	PURLINS	CASE •1	CASE •2	CASE •3		
mm	mm	mm	mm	mm	mm		
1800	150	3	1200	1800	1800		
2400	170	3	1500	1800	2100		
3000	190	3	1500	2100	2400		
3600	210	3	1800	2400	2700		
4200	240	3	2100	2700	3000		
4800	260	4	2100	3000	3000		
5400	280	4	2400	3000	3300		
6000	300	4	2400	3300	3600		
6600	320	4	2700	3600	3600		

CASE \*1: FLAT SURFACE WITH WATER TABLE BELOW BOTTOM OF HOLE. CASE \*2: FLAT SURFACE WITH WATER TABLE BELOW BOTTOM OF HOLE. CASE \*3: A SIDE SLOPE OF 1:2 WITH WATER TABLE BELOW BOTTOM OF HOLE.

WALL HEIGHT

NOTE: PLANKS UP TO 4800 mm IN LENGTH WILL BE PROVIDED AS ONE PIECE. PLANKS LONGER THAN 4800 mm MAY BE PROVIDED IN ONE LENGTH OR IN TWO LENGTHS WITH A SINGLE SPILCE. FOR WALLS OVER 4800 mm IN HEIGHT, IF SPILCES ARE USED. THE TWO INSIDE PURLINS WILL BE 100 X 125 TO ACCOMMODATE THE SPLICE. (SEE PLANK SPILCE DETAIL).



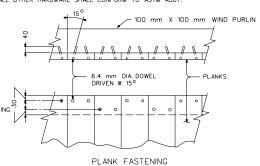
- 2. CRUSHED STONE SHALL CONFORM TO ARTICLE M.01.01 AND BE PLACED TO A MINIMUM DEPTH OF 50 mm ABOVE THE BOTTOM OF THE PANEL PLANKS. "S" SHALL BE A MINIMUM OF 50 mm.
- 3. ALL POST HARDWOOD MATERIAL SHALL BE BONGOSSI OR EKKI (LOPHERA ALATA/PROCERA).
  ALL PANAL HARDWOOD MATERIAL SHALL BE BONALIM (DINIZIA EXCELSA) OR EKKI
  WITH THE FOLLOWING MINIMUM CHARACTERISTICS.

	EKKI <u>BONGOSSI</u>	BONALIN
BENDING TENSION COMPRESSION PARALLEL TO GRAIN COMPRESSION PERPENDICULAR TO	25.9 MPa 23.8 MPa 24.5 MPa 13.8 MPa	26.2 MPa 24.1 MPa 27.6 MPa 14.5 MPa
GRAIN SHEAR PARALLEL TO GRAIN MODULUS OF ELASTICITY	2.9 MPa 17 170 MPa	3.1 MPa 16 200 MPa
MAX.UNIT MASS ASSUMED FOR DESIGN PURPOSES	1120 kg/m	<sup>3</sup> 1090 kg/r

4. THE HARDWOOD MATERIAL SUPPLIED SHALL BE NATURALLY FIRE-RESISTANT WITHOUT THE USE OF FIRE RETARDANT PRESERVATIVES. TEST RESULTS, CALCULATED IN ACCORDANCE WITH ASTM E-84 FOR FLAME SPREAD AND SMOKE DEVELOPED SHALL NOT BE MORE THAN THE FOLLOWING:

	EKKI BONGOSSI	BONALIN
FLAME SPREAD INDEX (10 MINUTES):	0	10
FLAME SPREAD INDEX (30 MINUTES):	10	25
SMOKE DEVELOPED VALUE (10 MINUTES):	5	10

- 5. THE TOP OF EACH POST IS TO BE FIELD CUT FLUSH WITH THE TOP OF THE PANEL PLANKS.
- THE END PLANKS OF EACH PANEL SHALL NOT HAVE AN EXPOSED TONGUE OR GROOVE.
- ALL FASTENERS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153, DOWEL STEEL SHALL CONFORM TO ASTM A36, ALC OTHER HARDWARE SHALL CONFORM TO ASTM A307.



40 mm X 150 mm PLANK 170 mm DIA, DOWEL \_\_GROOVE APPROX. 2 mm LARGER 7 THAN TONGUE

PLANK SPLICE DETAIL

PLANK SECTION ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.

HARDWOOD NOISE BARRIER WALL

TEST CERTIFICATION REQUIREDREF. ARTICLE 1.06.07
MATERIAL CERTIFICATE
1. LUMBER & POSTS
2. HARDWARE
A CERTIFICATE OF COMPLIANCE IS ALSO REQUIRED ON THE ABOVE ITEMS.

TYPE 2 CONN. DEPT. OF TRANSPORTATION





100 mm X 125 mm

PURLIN

SECTION A-A